

tomatoes for the Cannery. Raising tomatoes for the canneries has grown to be quite an industry in way of Chicago. It is stated that a a number of States. Maryland leads the list with about two million cases carefully enveloped with the sawdust per annum; Indiana, with her million cases, second: followed, in turn, by grow a bushel of tubers on his house-New Jersey, California, Delaware and Ohio. The canneries are permanent Institutions, the demand is increasing, and there is no reason why the growing of tomatoes will not continue to be

a profitable business with many. Growing tomatoes for a cannery differs from raising them for the market. In the former case, first of all, a large yield is sought. Early maturity is of less importance since the grower contracts to sell the whole crop at a fixed price. It is said that good corn land is rich enough for tomatoes, although medium clay loam is preferred by

Splendid results follow fall or winter plowed as early in the spring as pos-Plow deep and follow with thin layer of fine earth on the surface by shallow cultivation, which will be The variety should be such as the provide the plants at a nominal price to those who grow tomate's for them. | ficially with its needs. In case it is preferred to grow the the plants, as that will kill them. above ground. When they begin to branch do not branches. Continue stirring the soil ranged in rows six inches above each

A New Potato Culture. A queer tale in agriculture comes by half-bushel of sawdust, a dash of chemical solution and fifteen potatoes flame-colored flowers, while the fact carefully enveloped with the sawdust is that the striking effect is produced will enable the average householder to top or in his cellar within sixty days. This process has been discovered and elaborated by W. D. Darst, of Great Falls, Mont. Moreover, the grower will have no potato bugs to contend with, no turning over of the soil at certain intervals, and no contest with

Lie product of Mr Darst's process is termed the "vineless potato" from the fact that, grown under these apparently unnatural conditions, there is no surface vegetation, because of which, each potato buried in the saw-dust is enabled to produce at least

twelve normal-sized tubers. Recently at the Oakland Plaza, ia the rear of the Oakland Hotel, Mr. plowing. At any rate land should be Darst disclosed the methods of growing potatoes by his system. Operating on the theory that the presence of surearth mulching, that is, maintain a face vegetation was only a method of securing nourishment and in reality sapped the vitality of the tuber, Mr. of great value in saving the moisture. Darst experimented more than six years and found he could overcome canneries prefer. They will generally this seemingly natural course on the part of the plant by supplying it arti-

By employing sawdust, peat, straw, plants near where they are to be set, or any other earth product that would they should be started in a cold frame permit of the circulation of air, moistor on the south side of a board fence | ure and heat, and by applying solutions in a rich warm soil. The plants will of various fertilizers, discovered increase to proper size in four or five that a single potato would multiply weeks, and should be set out in the itself by attaching to itself from field in rows about four feet apart, for twelve to sixteen other potatoes of ease of cultivation. Start the cultiva- approximately the same dimensions tion early, but be careful not to bark | without throwing off any of its energy

Packed in loosely arranged bins percultivate closer than the ends of the mitting the free access of air and ar-

nistaken for stamens. So, too, with the flowers of the pretty "painted cup," which when it blossoms in May frequently makes whole meadows rosy with brilliant color. Plucking one, we may think we are looking at a pike of gorgeous entirely by numerous reddened leaves intermingled with the real flowers which are as plain as Cindere s sisters and practically hidden from

Indeed, so fond is Mother Nature of befooling her unobservant devotees that she has caused one whole family of plants to be given over to this makebelieve habit of flowering. To it be long that favorite little preacher of the April wood-Jack-in-the-pulpit; the

lowers are unrecognizable in them-

elves as such, except by the initiated,

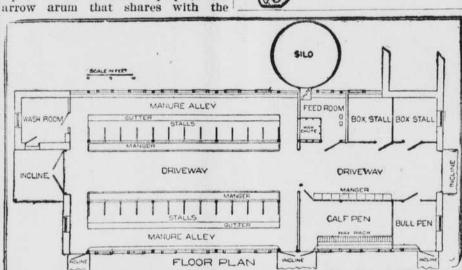
being minute and crowded on a fleshy Another gay deceiver is the poinsetta of the hot-house. In this case it

Model Dairy Farm. The Department of Agriculture has

matter of fact, what are commonly re- first, it allows ample room for the garded as the petals of the dogwood stalls and passageways, and, second, ruptcy well greased for all rivals. are no part of the floral structure at it permits of the most economical use all, but merely four large white leaves, of lumber in building. The length which, during the winter, served as snown is 84 reet, but this feature is protective wrappers to the flower buds. wholly dependent on the number of handle it. The real flowers are about the size of cows the dairyman wishes to handle shoe-pegs, of greenish color and are One of the weakest joints in barn conbunched several together in a small struction is the small amount of wincluster in the midst of the four white dow space usually allowed. This error leaves, and if observed at all by the is recufied by the Department in this average wild flower gatherers, are plan by allowing approximately t square feet for each cow.

The bulletin or circular may be obtained by application to the Department of Agriculture. (Circular 90, B.





DEPARTMENT OF AGRICULTURE'S PLAN OF A DAIRY BARN

patterdock and pickerel weed the

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muddy margins of shallow streams; the skunk cabbage, and that aristoerat of the greenhouse, the immacuate calla lily. With all these the

### This seems a

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"There's a Reason."

#### is a circlet of scarlet leaves which popular estimation rates as a flower, while the poor little real blossom clustered in the midst of these robbers of their good name live and die unappreciated. Relatives of the poinsetta are the wild spurges of our sandy fields. The flowers of many of these, inconspicuous in themselves, are similarly provided with relatively showy appendages, deceiving all but students recently published a bulletin containing suggestions for constructing a model dairy barn. It has been the

GROWN IN THE GOOD OLD-FASHIONED WAY.

to fall upon the ground, then cease.

on nearly all of these soils a liberal use of fertilizers will be profitable.

The tomato plant is a gross feeder, and especially requires an abundant supply of potash. Prof. Voorhees, of New Jersey, who is authority on such subjects, estimates that ten tons of fruit, with the accompanying vines, would contain fifty-seven pounds of nitrogen, sixteen pounds of phosphoric acid, and ninety-four pounds of potash. On many of our clay lands phosphoric acid is relatively low, and the application of potash is neede to pro uce the most profitable crops. The nitrogen supply is more variable, and can often be secured by turning under a leguminous crop. On Eastern lands, which have been devoted to last year's tomatoes, nitrate of soda can be used with a profit. In the Central States, manufacturers of fertilizers have not offered goods specially prepared for this vege table because of a lack of demand, due largely to the ignorance of same, and from lack of knowledge of the requirements of the soil. But of late both the growers and the canners are asking for advice regarding fertilizers to be used on tomatoes. A mixture that has been officially recommended contains:

Nitrogen ..... 4 per cent. Phosphoric acid... 7 per cent. Potash ......12 per cent. using about 500 pounds of this mixture

until the stalk has grown so heavy as other, with an allowance of one cubic For heavy yields it is essential that | Darst has demonstrated the rapidity

endeavor of the Department to plan a barn embodying the best ideas in scientific and sanitary construction that are consistent with practicability and cheapness, and it is believed the result accomplished by the plan published will help the dairyman to get the best products from his cows in the foot of sawdust to the seedling, Mr. most economical manner The plan is designed for 24 cows, strong land or heavy fertilization be of growth and the proportions that the and allows ample room for calf pens While it is true that on many potatoes may attain by showing that and box stalls for bull and cows; also of the soils in the Middle States a re- within sixty days fifteen potatoes will space for feed room, hay chute, wash munerative crop may be produced with | produce a bushel. In the character of | room and silo. In presenting the plan little fertilization, it is also true that his experiments and the success that it is not intended by the officials of the



Counterfeit Blossoms.

the spring woods, he would be a very plan is thought to meet the require-

by the builder and which are vital

The amount of space allowed for When the dogwood is in bloom in the various purposes named on the The design calls for a width of 36

seem to indicate that sulphate of out of fifty of the multitude of people rangement of the space can be adapted potash gives them a better quality. Who come home from their country to the needs of the particular location. A properly made tobacco fertilizer is walks with their arms full of snowy also suited for this crop, and the branches has ever noticed the real feet 4 inches outside. potash in it is derived from sulphate.

#### has attended them Mr. Darst, it is Department to insist that the arrange stated, has the indersement of Luther | ment shown is the only satisfactor; Burbank, the eminent horticulturist one, but the idea is to present some and botanist .- From Chicago Record important features often overlooked to a well-planned structure.

### unobservant traveler who did not ments so far as the square feet of Some experiments of early tomatoes know it; yet it is questionable if one floor space is concerned. The arflowers of this beautiful tree. as a main reasons for adopting this width;

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